

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/081494 A1

(51) International Patent Classification⁷: **H04L 29/06**,
G06F 12/00

(21) International Application Number:
PCT/SE2004/001084

(22) International Filing Date: 2 July 2004 (02.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/545,470 19 February 2004 (19.02.2004) US

(71) Applicant (for all designated States except US): TELE-
FONAKTIEBOLAGET L.M. ERICSSON (PUBL.)
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHRISTOFFERS-
SON, Jan [SE/SE]; Stenåsvägen 13, S-975 96 LULEÅ
(SE). HANNU, Hans [SE/SE]; Batterivägen 12, S-976 31
Luleå (SE).

(74) Agent: MAGNUSSON, Monica; Ericsson AB, Patent
Unit Radio Networks, S-164 80 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

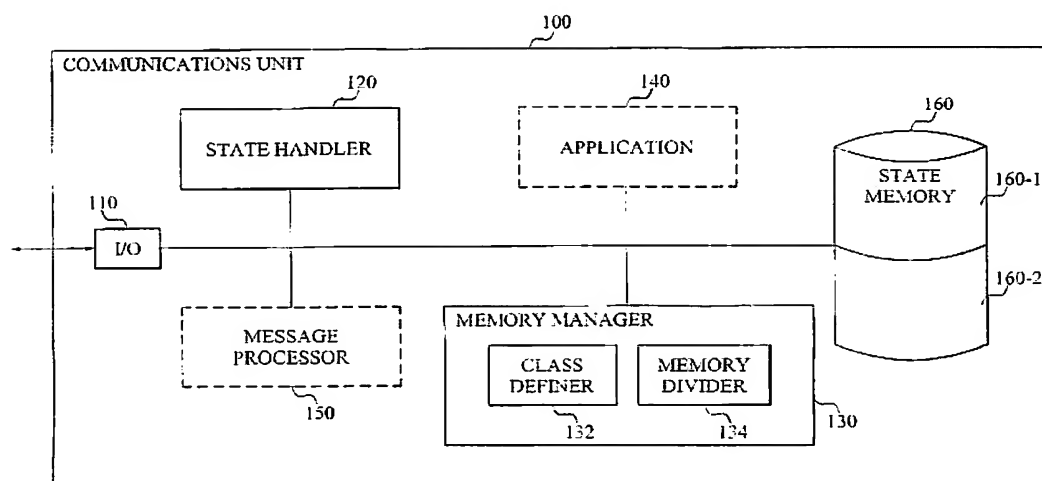
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND ARRANGEMENT FOR STATE MEMORY MANAGEMENT



(57) Abstract: The present invention relates to management of a state memory (160) in a communications unit (100-1). The state memory (160) then stores states that are used in message-based communication with external units (100-2, 100-3, 100-4; 200) in a communications system (1). The data message communicated between the units (100-1, 100-2, 100-3, 100-4; 200) are defined into multiple message classes. Furthermore, the state memory (160) is divided into multiple memory portions (160-1, 160-2), where each such memory portion (160-1, 160-2) is assigned to store states associated with a specific message class. This will prevent overwriting important states with less useful states.